

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/567,074
Source: LEW0
Date Processed by STIC: 02/21/2006

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/567, 074

CRF Edit Date: 02/21/2006
Edited by: DA

___ **Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line**

___ **Corrected the SEQ ID NO. Sequence numbers edited were:**

___ **Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:**

___ **Deleted: ___ invalid beginning/end-of-file text ; ___ page numbers**

___ **Inserted mandatory headings/numeric identifiers, specifically:**

___ **Moved responses to same line as heading/numeric identifier, specifically:**

___ **Other:**



IFWP

RAW SEQUENCE LISTING

DATE: 02/21/2006

PATENT APPLICATION: US/10/567,074

TIME: 15:23:49

Input Set : A:\PTO.DA.txt

Output Set: N:\CRF4\02212006\J567074.raw

5 <110> APPLICANT: Scherer, Stephen W.
 7 Minassian, Berge A.
 11 <120> TITLE OF INVENTION: Lafora's Disease Gene
 15 <130> FILE REFERENCE: 4012.1000-003
 C--> 19 <140> CURRENT APPLICATION NUMBER: US/10/567,074
 C--> 19 <141> CURRENT FILING DATE: 2006-02-03
 19 <150> PRIOR APPLICATION NUMBER: PCT/CA2004/001449
 21 <151> PRIOR FILING DATE: 2004-07-30
 25 <150> PRIOR APPLICATION NUMBER: US 60/491,968
 27 <151> PRIOR FILING DATE: 2003-08-04
 31 <160> NUMBER OF SEQ ID NOS: 5
 35 <170> SOFTWARE: PatentIn version 3.1
 39 <210> SEQ ID NO: 1
 41 <211> LENGTH: 2120
 43 <212> TYPE: DNA
 45 <213> ORGANISM: Homo sapiens
 49 <400> SEQUENCE: 1
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 54 ccgcgcaacc tgcctgctgc ccacgtgggtc tgcctggcct gcgtggccgc cctggcgcac 180
 56 ccgcgcactc tggccctcga gtgcccattc tgcaggcgag cttgccgggg ctgcgacacc 240
 58 agcgactgcc tgccggtgct gcacctcata gagctcctgg gctcagcgct tcgccagtcc 300
 60 ccggccgccc atcgcgccgc ccccgagccc cccggagccc tcacctgcca ccacaccttc 360
 62 ggcggctggg ggaccttgt caaccccacc ggactggcgc tttgtcccaa gacggggcgt 420
 64 gtcgtggtgg tgcacgacgg caggaggcgt gtcaagattt ttgactcagg gggaggatgc 480
 66 gcgcatcagt ttggagagaa gggggacgct gcccaagaca ttaggtaccc tgtggatgtc 540
 68 accatcacca acgactgcca tgtggttgtc actgacgccc gcgatcgctc catcaaagtg 600
 70 tttgattttt ttggccagat caagcttgctc attggaggcc aattctcctt accttggggt 660
 72 gtggagacca cccctcagaa tgggattgtg gtaactgatg cggaggcagg gtccctgcac 720
 74 ctcttgagcg tcgacttcgc ggaaggggtc cttcggagaa ctgaaagggt gcaagctcat 780
 76 ctgtgcaatc cccgaggggt ggcagtgtct tggctcaccg gggccattgc ggtcctggag 840
 78 caccctctgg ccctggggac tggggtttgc agcaccaggg tgaaagtgtt tagctcaagt 900
 80 atgcagcttg tcggccaagt ggataccttt gggctgagcc tctactttcc ctccaaaata 960
 82 actgcctccg ctgtgacctt tgatcaccag ggaaatgtga ttgttgacga tacatctggt 1020
 84 ccagctatcc tttgcttagg aaaacctgag gagtttccag taccgaagcc catggctact 1080
 86 catggtcttt cgcctcctgt ggctcttacc ttcaccaagg agaattctct tcttgtgctg 1140
 88 gacacagcat ctcatctat aaaagtctat aaagtgtgact gggggtgatg ggctggggtg 1200
 90 ggtccctgga atcagaagca ctagtgctgc cattaatgaa ttgtttaacc ctggataagt 1260
 92 cacttaaaact catctatcca ggcagggata attaaaacca tctggcagac ttacaaagct 1320
 94 tgggacagtt attggagatt aatctaccat ttattgaatg catactctgt gcaaggaaat 1380
 96 ttgcaaatat tagcttattt aatctgtact atccagttag gtaatttctt ccccccaag 1440
 98 atagagtcaa gctctgtcac ccaggctgga gtgcagaagc atgatcacag ctactacag 1500
 100 tttcaacgtc ccccgctcag gtggtccttc cacctcagcc tcccaagtag ctgggaccac 1560

CPR-6)

RAW SEQUENCE LISTING

DATE: 02/21/2006

PATENT APPLICATION: US/10/567,074

TIME: 15:23:49

Input Set : A:\PTO.DA.txt

Output Set: N:\CRF4\02212006\J567074.raw

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104 gttgcccagg ctggtctcaa actcctgagt tcaagcaatc caccttcctc ggccctccaa 1680
106 agtactagga gtacaggcat agccacttgc tcagccataa tttttattat taatctcatt 1740
108 gtacaagtga gaaaactgag acccagagag cttaagtgc ttcctcgagg tcatagttac 1800
110 ttactgcctt agtcccaatt tgaattcaat tctgattcca aataagttgc gcttaaataa 1860
112 gacaacagat gtgggaaaaa tatgtgaatg tgtagtgttg ctatgtgtac tgtctttaca 1920
114 agtagctaata ttttttagca caaagatgtg caaagaaagg agactttatg gagagttcag 1980
116 gagaaaaagg attttgtggt ggccatcact ttcattcaat ttgcgactgc tctgatggca 2040
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120 tattaataaaa gtaaacaatgt 2120
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125 <211> LENGTH: 395
127 <212> TYPE: PRT
129 <213> ORGANISM: Homo sapiens
133 <400> SEQUENCE: 2
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136 1 5 10 15
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140 20 25 30
143 Phe Gly His Arg Gln Gln Arg Arg Pro Arg Asn Leu Ser Cys Gly His
144 35 40 45
147 Val Val Cys Leu Ala Cys Val Ala Ala Leu Ala His Pro Arg Thr Leu
148 50 55 60
151 Ala Leu Glu Cys Pro Phe Cys Arg Arg Ala Cys Arg Gly Cys Asp Thr
152 65 70 75 80
155 Ser Asp Cys Leu Pro Val Leu His Leu Ile Glu Leu Leu Gly Ser Ala
156 85 90 95
159 Leu Arg Gln Ser Pro Ala Ala His Arg Ala Ala Pro Ser Ala Pro Gly
160 100 105 110
163 Ala Leu Thr Cys His His Thr Phe Gly Gly Trp Gly Thr Leu Val Asn
164 115 120 125
167 Pro Thr Gly Leu Ala Leu Cys Pro Lys Thr Gly Arg Val Val Val Val
168 130 135 140
171 His Asp Gly Arg Arg Arg Val Lys Ile Phe Asp Ser Gly Gly Gly Cys
172 145 150 155 160
175 Ala His Gln Phe Gly Glu Lys Gly Asp Ala Ala Gln Asp Ile Arg Tyr
176 165 170 175
179 Pro Val Asp Val Thr Ile Thr Asn Asp Cys His Val Val Val Thr Asp
180 180 185 190
183 Ala Gly Asp Arg Ser Ile Lys Val Phe Asp Phe Phe Gly Gln Ile Lys
184 195 200 205
187 Leu Val Ile Gly Gly Gln Phe Ser Leu Pro Trp Gly Val Glu Thr Thr
188 210 215 220
191 Pro Gln Asn Gly Ile Val Val Thr Asp Ala Glu Ala Gly Ser Leu His
192 225 230 235 240
195 Leu Leu Asp Val Asp Phe Ala Glu Gly Val Leu Arg Arg Thr Glu Arg
196 245 250 255
199 Leu Gln Ala His Leu Cys Asn Pro Arg Gly Val Ala Val Ser Trp Leu
200 260 265 270

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RAW SEQUENCE LISTING

DATE: 02/21/2006

PATENT APPLICATION: US/10/567,074

TIME: 15:23:49

Input Set : A:\PTO.DA.txt

Output Set: N:\CRF4\02212006\J567074.raw

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203 Thr Gly Ala Ile Ala Val Leu Glu His Pro Leu Ala Leu Gly Thr Gly
204      275                      280                      285
207 Val Cys Ser Thr Arg Val Lys Val Phe Ser Ser Ser Met Gln Leu Val
208      290                      295                      300
211 Gly Gln Val Asp Thr Phe Gly Leu Ser Leu Tyr Phe Pro Ser Lys Ile
212 305                      310                      315                      320
215 Thr Ala Ser Ala Val Thr Phe Asp His Gln Gly Asn Val Ile Val Ala
216      325                      330                      335
219 Asp Thr Ser Gly Pro Ala Ile Leu Cys Leu Gly Lys Pro Glu Glu Phe
220      340                      345                      350
223 Pro Val Pro Lys Pro Met Val Thr His Gly Leu Ser His Pro Val Ala
224      355                      360                      365
227 Leu Thr Phe Thr Lys Glu Asn Ser Leu Leu Val Leu Asp Thr Ala Ser
228      370                      375                      380
231 His Ser Ile Lys Val Tyr Lys Val Asp Trp Gly
232 385                      390                      395

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235 <210> SEQ ID NO: 3
237 <211> LENGTH: 3008
239 <212> TYPE: DNA
241 <213> ORGANISM: Canis sp.
245 <220> FEATURE:
247 <221> NAME/KEY: CDS
249 <222> LOCATION: (698)..(1897)
251 <223> OTHER INFORMATION:
255 <220> FEATURE:
257 <221> NAME/KEY: misc_feature
259 <222> LOCATION: (2692)..(2692)
261 <223> OTHER INFORMATION: N=any nucleic acid
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267 <221> NAME/KEY: misc_feature
269 <222> LOCATION: (2748)..(2748)
271 <223> OTHER INFORMATION: N=any nucleic acid
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277 <221> NAME/KEY: misc_feature
279 <222> LOCATION: (2750)..(2750)
281 <223> OTHER INFORMATION: N=any nucleic acid
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287 <221> NAME/KEY: misc_feature
289 <222> LOCATION: (2793)..(2793)
291 <223> OTHER INFORMATION: N=any nucleic acid
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297 <221> NAME/KEY: misc_feature
299 <222> LOCATION: (2845)..(2845)
301 <223> OTHER INFORMATION: N=any nucleic acid
305 <220> FEATURE:
307 <221> NAME/KEY: misc_feature
309 <222> LOCATION: (2916)..(2916)
311 <223> OTHER INFORMATION: N=any nucleic acid
315 <220> FEATURE:

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RAW SEQUENCE LISTING

DATE: 02/21/2006

PATENT APPLICATION: US/10/567,074

TIME: 15:23:49

Input Set : A:\PTO.DA.txt

Output Set: N:\CRF4\02212006\J567074.raw

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317 <221> NAME/KEY: misc_feature
319 <222> LOCATION: (2918)..(2918)
321 <223> OTHER INFORMATION: N=any nucleic acid
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351 <223> OTHER INFORMATION: N=any nucleic acid
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358 gcccgaagcc cccaggttc cgggcccga gaaccaagcc ccccgggccc ccgccccag      120
360 caccagcac caagcccccg ccccccgcgc caagcaccca gcccagcac ccagcccccg      180
362 cccagcccc agccccagca cccagcccc gcccagcac ccagccccag caccagcccc      240
364 ccgccccagc cccagcccc gtcccccccc ccagcaccca gcccagccc cagcagcagc      300
366 acccagcagg ggactgcaaa gcgtaggcta cccaggtgg aacaccgtgt tctagttttg      360
368 ctttgccgtt tgcagcctgg gcgatcgggg gccaccgctc gagcctgttt ccgctcgcgg      420
370 aaagcggagc cgccccgccc cgccccccgc ctgcctgaag gtcacggggc tgggcctgcg      480
372 gcgcgcggtg cggccccgca gcgtccgctc ccgcgcctc cgcagtcagc gcccgccgc      540
374 ccgccccggg accgcaggcc gcggccgaga ggctgcgcgc tgcgcccgcg acgtcaggcc      600
376 ccgccccgcc ccgccccgcc ccgtgaccgg ccccgggccc ggccccggcc ccggcccccg      660
378 accgagcggc gcccgcgga gcggcgcg ccgcgcg atg ggg gcc gaa gcg gcg      715
379                                     Met Gly Ala Glu Ala Ala
380                                     1           5
382 ggg agc ggg cgg gcg ctg cgg gag ctg gtg cgc gag gcc gag gtc agc      763
383 Gly Ser Gly Arg Ala Leu Arg Glu Leu Val Arg Glu Ala Glu Val Ser
384           10           15           20
386 ttg ctc gag tgc aag gtg tgc ttc gag agg ttc ggc cac cgc cag cag      811
387 Leu Leu Glu Cys Lys Val Cys Phe Glu Arg Phe Gly His Arg Gln Gln
388           25           30           35
390 cgg cgc ccg cgc aac ctg ccc tgc ggc cac gtg gtg tgc ctg gcc tgc      859
391 Arg Arg Pro Arg Asn Leu Pro Cys Gly His Val Val Cys Leu Ala Cys
392           40           45           50
394 gtg gcg gcc ctg gcg cac ccg cgg acg ctg gcc ctg gag tgc ccc ttc      907
395 Val Ala Ala Leu Ala His Pro Arg Thr Leu Ala Leu Glu Cys Pro Phe
396 55           60           65           70
398 tgc cgc cgg gcc tgc cgc ggc tgc gac acc agc gac tgc ctg ccg gtg      955
399 Cys Arg Arg Ala Cys Arg Gly Cys Asp Thr Ser Asp Cys Leu Pro Val
400           75           80           85
402 ctt cac ctc ctg gag ctc ctg ggc tgc gcg ctg cgc cca gcc ccc gcc      1003
403 Leu His Leu Leu Glu Leu Leu Gly Ser Ala Leu Arg Pro Ala Pro Ala
404           90           95           100
406 gcc ccc cgc gcc gcc ccc cgc gcc gcc ccc tgc gcc ccg ggc gcc ctc      1051

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/567,074

DATE: 02/21/2006

TIME: 15:23:49

Input Set : A:\PTO.DA.txt

Output Set: N:\CRF4\02212006\J567074.raw

407	Ala	Pro	Arg	Ala	Ala	Pro	Arg	Ala	Ala	Pro	Cys	Ala	Pro	Gly	Ala	Leu	
408			105					110					115				
410	gcc	tgc	cat	cac	gcg	ttc	gga	ggc	tgg	ggg	acc	ctg	gtc	aac	ccc	acg	1099
411	Ala	Cys	His	His	Ala	Phe	Gly	Gly	Trp	Gly	Thr	Leu	Val	Asn	Pro	Thr	
412			120				125					130					
414	ggg	ctg	gcg	ctg	tgc	ccc	aag	acc	ggg	cgg	gtc	gtg	gtg	gtg	cac	gac	1147
415	Gly	Leu	Ala	Leu	Cys	Pro	Lys	Thr	Gly	Arg	Val	Val	Val	Val	His	Asp	
416	135					140					145				150		
418	ggc	agg	agg	cgg	gtc	aag	atc	ttt	gac	tcc	ggg	gga	gga	tgc	gcc	cat	1195
419	Gly	Arg	Arg	Arg	Val	Lys	Ile	Phe	Asp	Ser	Gly	Gly	Gly	Cys	Ala	His	
420					155				160						165		
422	cag	ttt	gga	gag	aag	ggg	gag	gct	gcc	cag	gac	att	agg	tac	ccc	ctg	1243
423	Gln	Phe	Gly	Glu	Lys	Gly	Glu	Ala	Ala	Gln	Asp	Ile	Arg	Tyr	Pro	Leu	
424			170						175					180			
426	gac	gtc	gcc	gtc	acc	aac	gac	tgc	cac	gtg	gtt	gtc	acc	gac	gcc	ggc	1291
427	Asp	Val	Ala	Val	Thr	Asn	Asp	Cys	His	Val	Val	Val	Thr	Asp	Ala	Gly	
428			185				190					195					
430	gac	cgc	tcc	atc	aaa	gtg	ttt	gat	ttc	ttt	ggc	cag	atc	aag	ctc	gtc	1339
431	Asp	Arg	Ser	Ile	Lys	Val	Phe	Asp	Phe	Phe	Gly	Gln	Ile	Lys	Leu	Val	
432			200				205					210					
434	att	gga	gac	cag	ttt	tcc	tta	cct	tgg	ggc	gtg	gag	acc	acc	cct	cag	1387
435	Ile	Gly	Asp	Gln	Phe	Ser	Leu	Pro	Trp	Gly	Val	Glu	Thr	Thr	Pro	Gln	
436	215					220					225				230		
438	aat	ggg	gtc	gtg	gta	act	gac	gcc	gag	gca	ggg	tcg	ctg	cac	ctg	ctg	1435
439	Asn	Gly	Val	Val	Val	Thr	Asp	Ala	Glu	Ala	Gly	Ser	Leu	His	Leu	Leu	
440					235				240						245		
442	gaa	gtc	gac	ttt	gca	gaa	gga	gcc	ctc	cag	agg	act	gaa	aag	ctg	caa	1483
443	Glu	Val	Asp	Phe	Ala	Glu	Gly	Ala	Leu	Gln	Arg	Thr	Glu	Lys	Leu	Gln	
444			250						255					260			
446	ggt	cat	ctg	tgc	aac	ccg	cga	ggg	gtg	gcc	gtg	tcc	tgg	ctc	act	ggg	1531
447	Gly	His	Leu	Cys	Asn	Pro	Arg	Gly	Val	Ala	Val	Ser	Trp	Leu	Thr	Gly	
448			265					270					275				
450	gcc	att	gcg	gtc	ctg	gag	cac	cct	ccg	ggg	ctg	ggg	gct	ggg	gcg	ggc	1579
451	Ala	Ile	Ala	Val	Leu	Glu	His	Pro	Pro	Gly	Leu	Gly	Ala	Gly	Ala	Gly	
452			280				285					290					
454	agc	acc	gcc	gtg	aag	gtg	ttc	agc	cca	act	atg	cag	ctg	atc	ggc	cag	1627
455	Ser	Thr	Ala	Val	Lys	Val	Phe	Ser	Pro	Thr	Met	Gln	Leu	Ile	Gly	Gln	
456	295					300					305				310		
458	gtg	gat	acc	ttt	ggg	ctc	agc	ctc	ttt	ttc	ccc	tct	aga	ata	acc	gcc	1675
459	Val	Asp	Thr	Phe	Gly	Leu	Ser	Leu	Phe	Phe	Pro	Ser	Arg	Ile	Thr	Ala	
460					315				320						325		
462	tcc	gcc	gtg	acc	ttt	gat	cac	cag	ggg	aat	gtg	att	gtt	gca	gat	act	1723
463	Ser	Ala	Val	Thr	Phe	Asp	His	Gln	Gly	Asn	Val	Ile	Val	Ala	Asp	Thr	
464					330				335					340			
466	tct	agt	cag	gcc	gtc	cta	tgc	ttg	gga	cag	cct	gag	gaa	ttt	cca	gtc	1771
467	Ser	Ser	Gln	Ala	Val	Leu	Cys	Leu	Gly	Gln	Pro	Glu	Glu	Phe	Pro	Val	
468			345					350					355				
470	ctg	aag	ccc	atc	atc	acc	cat	ggt	ctt	tcc	cat	cct	gtg	gca	ctg	acc	1819
471	Leu	Lys	Pro	Ile	Ile	Thr	His	Gly	Leu	Ser	His	Pro	Val	Ala	Leu	Thr	

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/567,074

DATE: 02/21/2006
TIME: 15:23:50

Input Set : A:\PTO.DA.txt
Output Set: N:\CRF4\02212006\J567074.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 2692,2748,2750,2793,2845,2916,2918,2931,2941,2990

VERIFICATION SUMMARY

DATE: 02/21/2006

PATENT APPLICATION: US/10/567,074

TIME: 15:23:50

Input Set : A:\PTO.DA.txt

Output Set: N:\CRF4\02212006\J567074.raw

L:19 M:270 C: Current Application Number differs, Replaced Current Application No
L:19 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:265 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:3,Line#:251
L:506 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:2637
L:508 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:2697
L:510 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:2757
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L:514 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:2877
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**Raw Sequence Listing before editing,
for reference only**



IFWP

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/567,074

DATE: 02/10/2006

TIME: 08:37:03

Input Set : A:\40121000003.txt

Output Set: N:\CRF4\02102006\J567074.raw

5 <110> APPLICANT: Scherer, Stephen W.
 7 Minassian, Berge A.
 11 <120> TITLE OF INVENTION: Lafora's Disease Gene
 15 <130> FILE REFERENCE: 4012.1000-003
 C--> 19 <140> CURRENT APPLICATION NUMBER: US/10/567,074
 C--> 19 <141> CURRENT FILING DATE: 2006-02-03
 19 <150> PRIOR APPLICATION NUMBER: PCT/CA2004/001449
 21 <151> PRIOR FILING DATE: 2004-07-30
 25 <150> PRIOR APPLICATION NUMBER: US 60/491,968
 27 <151> PRIOR FILING DATE: 2003-08-04
 31 <160> NUMBER OF SEQ ID NOS: 5
 35 <170> SOFTWARE: PatentIn version 3.1

Does Not Comply
Corrected Diskette Needed

(pg-1)

ERRORED SEQUENCES

714 <210> SEQ ID NO: 5
 716 <211> LENGTH: 12
 718 <212> TYPE: DNA
 720 <213> ORGANISM: Canis sp.
 724 <400> SEQUENCE: 5
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 E--> 729 4012.1000-003
 E--> 730 1/13

12

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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/567,074

DATE: 02/10/2006

TIME: 08:37:04

Input Set : A:\40121000003.txt

Output Set : N:\CRF4\02102006\J567074.raw

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L:19 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:265 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:3,Line#:251
L:506 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:2637
L:508 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:2697
L:510 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:2757
L:512 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:2817
L:514 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:2877
L:516 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:2937
L:729 M:254 E: No. of Bases conflict, LENGTH:Input:-3 Counted:14 SEQ:5
L:729 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:5
L:730 M:254 E: No. of Bases conflict, LENGTH:Input:13 Counted:15 SEQ:5
L:730 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2
L:730 M:252 E: No. of Seq. differs, <211> LENGTH:Input:12 Found:15 SEQ:5